



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/013462 A1

(51) International Patent Classification⁷: H02K 21/48,
21/00, H02J 3/01, 3/18

(21) International Application Number:
PCT/IB2004/002480

(22) International Filing Date: 30 July 2004 (30.07.2004)

(25) Filing Language: Italian

(26) **Publication Language:** English

(30) Priority Data:
MI2003A001595 1 August 2003 (01.08.2003) IT

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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM.

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
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TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

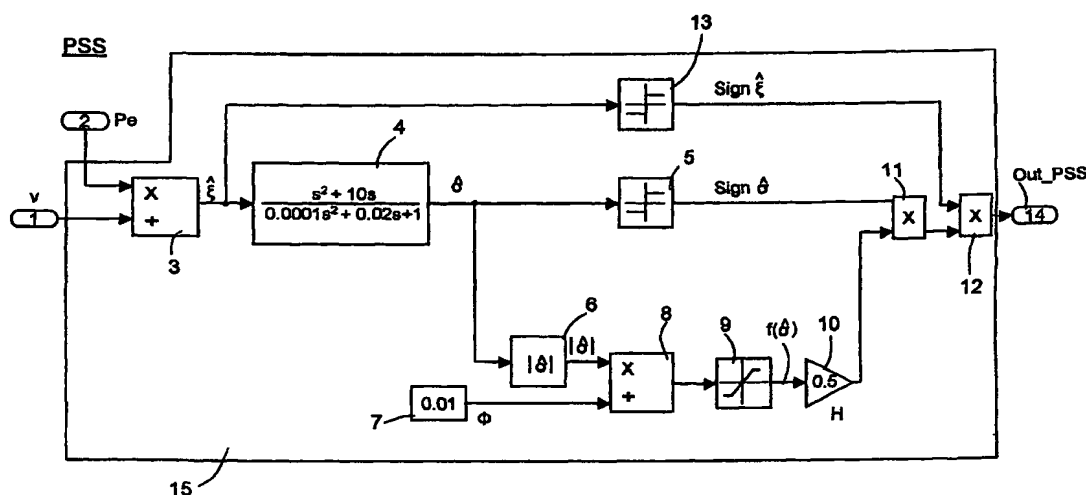
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPENSATOR DEVICE FOR STABILISING THE POWER OF ALTERNATORS IN ELECTRICAL POWER GENERATING PLANTS



(57) Abstract: Compensator device (PSS), for the stabilisation of electromechanical oscillations destined to provide a reference signal (OUT_PSS) to a voltage regulator device (AVR) of a synchronous alternator (G) for the delivery of electrical power to a distribution network (NET). Said device including: - first processing means (3,4) to receive electrical measurement signals representing operative parameters characteristics of said synchronous alternator and/or to generate an electrical signal to be controlled ($\xi(t)$): and a first electrical signal ($\sigma(\xi, t)$) corresponding to a sliding surface of a control of the “sliding modes” type, - second processing means (19,20) of the first signal ($\sigma(\xi, t)$) to generate the reference signal (OUT_PSS) so that it has a first order “sliding modes” profile.